

# CDTire License Installation

*CDTire* is using the flexlm licensing mechanism. For detailed information on flexlm, see the flexlm license manager documentation.

## Server License Installation

The *CDTire* installation comes with a flexlm distribution and this includes the vendor daemon CDTIRE.

If you received a license file that needs to be served (license file starts with SERVER <servername> <server HID> <optional port>), you need to

1. install *CDTire* on the server (or copy the <CDTire>/flexlm/<version>/<platform> directory) and
2. modify the port specification according to your site requirements (the license file is shipped with a predefined port specification which can be edited without invalidating the license) and
3. start the license manager by executing  

```
<CDTire>/flexlm/<version>/<platform>/lmgrd -c  
<license_file> -l <logfile> &
```

**Note:** If the server needs to be restarted, make sure that

- the CDTIRE vendor demon is terminated correctly, and
- the file `/usr/tmp/lockCDTIRE` does not exist.

Otherwise the server will not start correctly.

# Client License Installation

If you have received a license file that does not need to be served (license file does not start with `SERVER <servername> <server HID>`) or if you want to connect your *CDTire* simulation with the license server, 3 mechanisms are possible:

- set environment variable `CDTIRE_LICENSE_FILE` to `<license>`
- set/expand environment variable `LM_LICENSE_FILE` with `<license>`
- set `LicenseFile=<license>` in section `[License]` of `CDTire.ini` initialization file

In all 3 cases, `<license>` contains either

- the license file name including its full path  
`<full_path_to_lic_file>/<lic_file_name>` or
- `<port>@<server>` of the license server

As examples, see the following possibilities:

- (C-shell example):  

```
setenv CDTIRE_LICENSE_FILE 31060@lic_server
```
- (bash example):  

```
export LM_LICENSE_FILE=$LM_LICENSE_FILE:/dir/license.lic
```
- (CDTire.ini file example):  

```
[License]  
LicenseFile=31060@lic_server
```

If the license needs to be served, see ***Server License Installation***. Contact your system administrator to ask for port and server name.

## CDTire.ini initialization file

In case you choose the `CDTire.ini` mechanism, you need to supply a `CDTire.ini` file at a location that can be accessed by CDTire, so this has to be set up appropriately. There are several possibilities where this file is found by *CDTire*:

- directory specified by environment variable `$CDTIREHOME` (ideally, this environment variable is set up after a CDTire installation, we refer to it as a “CDTire site location”)
- directory specified by environment variable `($HOME)/CDTire` (`$HOME` is set up by the OS), so a user has to create the CDTire (case sensitive) folder inside the `$HOME` folder and place the `CDTire.ini` file there. We refer to this location as the “CDTire user location”.
- current working directory can also contain a `CDTire.ini` file (we refer to this as the “CDTire local location”).

To specify a license file or reference a license server, add a section `[License]` (if not present already). The key `LicenseFile` can be set to a license file (including full path) or a license server (including port). As an example, see the `CDTire.ini` file in the *CDTire* installation or the following example:

```
[License]
LicenseFile = <full_path_to_lic_file>/<lic_file>
; or LicenseFile = <port>@<server>
```

If `CDTire.ini` files exist in more than one of the above specified places, the contents of these files is merged - with the “User” key settings overruling the “Site” key settings and the “Local” key settings overruling both the “Site” and “User” key settings.